

James J Douglas

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Photoinduced Remote Functionalisations by Iminyl Radical Promoted C ^α -C and C ^α -H Bond Cleavage Cascades. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 744-748.	7.2	319
2	A scalable and operationally simple radical trifluoromethylation. <i>Nature Communications</i> , 2015, 6, 7919.	5.8	316
3	Visible Light Photocatalysis: Applications and New Disconnections in the Synthesis of Pharmaceutical Agents. <i>Organic Process Research and Development</i> , 2016, 20, 1134-1147.	1.3	293
4	NHCs in Asymmetric Organocatalysis: Recent Advances in Azolium Enolate Generation and Reactivity. <i>Synthesis</i> , 2012, 44, 2295-2309.	1.2	235
5	Photochemical Perfluoroalkylation with Pyridine N -Oxides: Mechanistic Insights and Performance on a Kilogram Scale. <i>CheM</i> , 2016, 1, 456-472.	5.8	221
6	Hydroxylamine Derivatives as Nitrogen ^α -Radical Precursors in Visible ^α -Light Photochemistry. <i>Chemistry - A European Journal</i> , 2018, 24, 12154-12163.	1.7	219
7	Photoinduced Remote Functionalization of Amides and Amines Using Electrophilic Nitrogen Radicals. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12945-12949.	7.2	207
8	Photocatalysis in the Life Science Industry. <i>Chemical Reviews</i> , 2022, 122, 2907-2980.	23.0	183
9	Practical and regioselective amination of arenes using alkyl amines. <i>Nature Chemistry</i> , 2019, 11, 426-433.	6.6	181
10	A Visible ^α -Light ^α -Mediated Radical Smiles Rearrangement and its Application to the Synthesis of a Difluoro ^α -Substituted Spirocyclic ORL ^α -1 Antagonist. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14898-14902.	7.2	152
11	A photochemical dehydrogenative strategy for aniline synthesis. <i>Nature</i> , 2020, 584, 75-81.	13.7	124
12	Isothiourea-mediated asymmetric Michael-lactonisation of trifluoromethylenones: a synthetic and mechanistic study. <i>Chemical Science</i> , 2013, 4, 4146.	3.7	117
13	Ligand functionalization as a deactivation pathway in a fac-Ir(ppy) ₃ -mediated radical addition. <i>Chemical Science</i> , 2015, 6, 537-541.	3.7	98
14	Photoinduced Remote Functionalisations by Iminyl Radical Promoted C ^α -C and C ^α -H Bond Cleavage Cascades. <i>Angewandte Chemie</i> , 2018, 130, 752-756.	1.6	87
15	Copper-catalysed amination of alkyl iodides enabled by halogen-atom transfer. <i>Nature Catalysis</i> , 2021, 4, 623-630.	16.1	79
16	Photoredox Catalysis in a Complex Pharmaceutical Setting: Toward the Preparation of JAK2 Inhibitor LY2784544. <i>Journal of Organic Chemistry</i> , 2014, 79, 11631-11643.	1.7	78
17	Isothiourea-Catalyzed Asymmetric Synthesis of Î ² -Lactams and Î ² -Amino Esters from Arylacetic Acid Derivatives and <i>N</i> -Sulfonylaldimines. <i>Journal of Organic Chemistry</i> , 2014, 79, 1626-1639.	1.7	77
18	A dual photoredox-nickel strategy for remote functionalization <i>via</i> iminyl radicals: radical ring-opening-arylation, -vinylation and -alkylation cascades. <i>Chemical Science</i> , 2019, 10, 7728-7733.	3.7	70

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19	NHC-Promoted Asymmetric \hat{I}^2 -Lactone Formation from Arylalkylketenes and Electron-Deficient Benzaldehydes or Pyridinecarboxaldehydes. <i>Journal of Organic Chemistry</i> , 2013, 78, 3925-3938.	1.7	66
20	Stereospecific Asymmetric N-Heterocyclic Carbene (NHC)-Catalyzed Redox Synthesis of Trifluoromethyl Dihydropyranones and Mechanistic Insights. <i>Journal of Organic Chemistry</i> , 2013, 78, 9243-9257.	1.7	64
21	Photoinduced Remote Functionalization of Amides and Amines Using Electrophilic Nitrogen Radicals. <i>Angewandte Chemie</i> , 2018, 130, 13127-13131.	1.6	60
22	Visible-Light-Mediated Reactions of Electrophilic Radicals with Vinyl and Allyl Trifluoroborates. <i>ACS Catalysis</i> , 2017, 7, 4126-4130.	5.5	52
23	Visible-Light-Mediated <i>exo</i> - <i>dig</i> Cyclizations of Amidyl Radicals. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 2108-2111.	1.2	49
24	\hat{I}^{\pm} -Ketophosphonates as Ester Surrogates: Isothiourea-Catalyzed Asymmetric Diester and Lactone Synthesis. <i>Organic Letters</i> , 2014, 16, 2506-2509.	2.4	47
25	NHC-Mediated Chlorination of Unsymmetrical Ketenes: Catalysis and Asymmetry. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 5863-5869.	1.2	43
26	Chiral relay in NHC-mediated asymmetric \hat{I}^2 -lactam synthesis I; substituent effects in NHCs derived from (1R,2R)-cyclohexane-1,2-diamine. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 582-600.	1.8	41
27	Visible-light-mediated generation of nitrile oxides for the photoredox synthesis of isoxazolines and isoxazoles. <i>Chemical Communications</i> , 2016, 52, 12302-12305.	2.2	40
28	Development and Proof of Concept for a Large-Scale Photoredox Additive-Free Minisci Reaction. <i>Organic Process Research and Development</i> , 2021, 25, 57-67.	1.3	36
29	Photoinduced decarboxylative azidation of cyclic amino acids. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1839-1842.	1.5	33
30	A Visible-Light-Mediated Radical Smiles Rearrangement and its Application to the Synthesis of a Difluoro-Substituted Spirocyclic ORL \hat{I} -1 Antagonist. <i>Angewandte Chemie</i> , 2015, 127, 15111-15115.	1.6	32
31	Preparative Scale Demonstration and Mechanistic Investigation of a Visible Light-Mediated Radical Smiles Rearrangement. <i>Organic Process Research and Development</i> , 2016, 20, 1148-1155.	1.3	29
32	Stereo- and Chemodivergent NHC-Promoted Functionalisation of Arylalkylketenes with Chloral. <i>Chemistry - A European Journal</i> , 2015, 21, 16354-16358.	1.7	24
33	Enantioselective NHC-catalysed redox [4+2]-hetero-Diels-Alder reactions using \hat{I}^{\pm} -aryloxyaldehydes and unsaturated ketoesters. <i>Tetrahedron: Asymmetry</i> , 2017, 28, 355-366.	1.8	16
34	A display of sensitivity. <i>Nature Chemistry</i> , 2019, 11, 683-684.	6.6	13
35	A Desaturative Approach for Aromatic Aldehyde Synthesis via Synergistic Enamine, Photoredox and Cobalt Triple Catalysis. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	10
36	Exploration of a Nitromethane-Carbonylation Strategy during Route Design of an Atropisomeric KRAS ^{G12C} Inhibitor. <i>Journal of Organic Chemistry</i> , 2022, 87, 2075-2086.	1.7	7

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37	Some Items of Interest to Process R&D Chemists and Engineers. Organic Process Research and Development, 2021, 25, 691-702.	1.3	2
38	Some Items of Interest to Process R&D Chemists and Engineers. Organic Process Research and Development, 2020, 24, 2789-2801.	1.3	1
39	A Desaturative Approach for Aromatic Aldehyde Synthesis via Synergistic Enamine, Photoredox and Cobalt Triple Catalysis. Angewandte Chemie, 0, , .	1.6	1
40	Some Items of Interest to Process R&D Chemists and Engineers. Organic Process Research and Development, 2019, 23, 1107-1117.	1.3	0
41	Some Items of Interest to Process R&D Chemists and Engineers. Organic Process Research and Development, 2019, 23, 2583-2591.	1.3	0
42	Some Items of Interest to Process R&D Chemists and Engineers. Organic Process Research and Development, 2020, 24, 1351-1363.	1.3	0
43	Some Items of Interest to Process R&D Chemists and Engineers. Organic Process Research and Development, 2020, 24, 885-896.	1.3	0
44	Some Items of Interest to Process R&D Chemists and Engineers. Organic Process Research and Development, 2020, 24, 115-124.	1.3	0
45	Some Items of Interest to Process R&D Chemists and Engineers. Organic Process Research and Development, 2022, 26, 1019-1028.	1.3	0
46	Some Items of Interest to Process R&D Chemists and Engineers. Organic Process Research and Development, 2021, 25, 2646-2657.	1.3	0
47	Some Items of Interest to Process R&D Chemists and Engineers. Organic Process Research and Development, 2022, 26, 1547-1557.	1.3	0